

Amendments to the Claims:

Claims 10-46 are pending in this application.

1 1.-9. (cancelled)

1 10. (original) A method of distributing high-speed information
2 packets to at least one subscriber unit, each information packet associated with an
3 information channel, the method comprising:
4 routing each information packet through a distributed network of
5 routing elements, each routing element in wireless communication with at least one
6 other routing element in the network of routing elements;
7 receiving each information packet in a distribution center in
8 communication with the distributed network of routing elements; and
9 forwarding each information packet to each subscriber unit in
10 communication with the distribution center and requesting the information channel
11 of which the information packet is associated.

1 11. (original) A method of distributing high-speed information
2 packets to at least one subscriber unit as in claim 10 wherein the information packets
3 comprise video information.

1 12. (original) A method of distributing high-speed information
2 packets to at least one subscriber unit as in claim 10 wherein routing each information
3 packet through a distributed network of routing elements comprises:
4 routing each information packet through a distributed network of
5 distribution points; and
6 transmitting each information packet to an access point operative to
7 communicate with a plurality of subscriber units.

1 13. (original) A method of distributing high-speed information
2 packets to at least one subscriber unit as in claim 12 wherein at least one distribution
3 point is functioning as the distribution center.

1 14. (original) A method of distributing high-speed information
2 packets to at least one subscriber unit as in claim 12 wherein at least one access point
3 is functioning as the distribution center.

1 15. (original) A method of distributing high-speed information
2 packets to at least one subscriber unit as in claim 10 further comprising:
3 receiving a request from a subscriber unit to access an information
4 channel;
5 requesting transmission of the requested information channel if no
6 other subscriber unit is receiving the requested information channel; and
7 noting that the requesting subscriber unit is receiving the requested
8 information channel.

1 16. (original) A method of distributing high-speed information
2 packets to at least one subscriber unit as in claim 15 wherein receiving a request from
3 a subscriber unit comprises determining that the requesting subscriber unit is within
4 the coverage area of a distribution center.

1 17. (original) A method of distributing high-speed information
2 packets to at least one subscriber unit as in claim 15 wherein receiving a request from
3 a subscriber unit comprises receiving a message from a subscriber unit.

1 18. (original) A method of distributing high-speed information
2 packets to at least one subscriber unit as in claim 15 further comprising transmitting
3 a dummy address as the destination for the requested transmission of the requested
4 information channel.

1 19. (original) A method of distributing high-speed information
2 packets to at least one subscriber unit as in claim 15 further comprising:
3 determining that a subscriber unit is no longer accessing the
4 information channel;
5 canceling transmission of the information channel if no other
6 subscriber unit is receiving the information channel; and
7 noting that the subscriber unit is no longer receiving the information
8 channel.

1 20. (original) A system for providing high-speed packetized
2 information comprising a distributed routing network, the distributed routing network
3 comprising a plurality of distribution points, each distribution point in the plurality
4 of distribution points in radio contact with at least one other distribution point in the
5 plurality of distribution points, at least one of the plurality of distribution points
6 comprising at least one host digital terminal (HDT) for converting high-speed
7 information packets to an optical format and forwarding the information packets to
8 subscriber units.

1 21. (original) A system for providing high-speed packetized
2 information as in claim 20 wherein at least one subscriber unit is operative to receive
3 information packets in an optical format.

1 22. (original) A system for providing high-speed packetized
2 information as in claim 20 further comprising at least one access point in
3 communication with the at least one HDT, the access point operative to convert
4 information packets in an optical format into a format compatible with copper
5 cabling.

1 23. (original) A system for providing high-speed packetized
2 information as in claim 22 wherein at least one subscriber unit is in communication
3 with the at least one access point through a network interface device.

1 24. (original) A system for providing high-speed packetized
2 information as in claim 22 wherein at least one access point functions as a video
3 distribution center.

1 25. (original) A system for providing high-speed packetized
2 information as in claim 20 wherein high-speed packetized information is provided
3 through a VDSL service.

1 26. (original) A system for providing high-speed packetized
2 information as in claim 20 wherein high-speed information includes video
3 information.

1 27. (original) A system for providing high-speed packetized
2 information as in claim 20 wherein at least one distribution point functions as a video
3 distribution center.

1 28. (original) A system for providing packetized video information
2 to a plurality of subscriber units comprising a distributed routing network, the
3 distributed routing network comprising a plurality of distribution points, each
4 distribution point in the plurality of distribution points in radio contact with at least
5 one other distribution point in the plurality of distribution points, at least one of the
6 plurality of distribution points functioning as a video distribution center.

1 29. (original) A system for providing packetized video information
2 to a plurality of subscriber units as in claim 28 wherein at least one of the distribution

3 points is operative to receive requests for video content from at least one subscriber
4 unit and forward those requests to at least one video supplier.

1 30. (original) A system for providing packetized video information
2 to a plurality of subscriber units as in claim 28 wherein at least one video distribution
3 center forwards video information packets comprising a video channel to each
4 subscriber unit served by the video distribution center requesting the video channel.

1 31. (original) A system for providing packetized video information
2 to a plurality of subscriber units comprising:
3 a distributed routing network, the distributed routing network
4 comprising a plurality of distribution points, each distribution point in the plurality
5 of distribution points in radio contact with at least one other distribution point in the
6 plurality of distribution points; and
7 at least one access point in communication with the distributed routing
8 network functioning as a video distribution center.

1 32. (original) A system for providing packetized video information
2 to a plurality of subscriber units as in claim 31 wherein the at least one access point
3 is operative to receive requests for video content from at least one subscriber unit and
4 forward those requests to at least one video supplier.

1 33. (original) A system for providing packetized video information
2 to a plurality of subscriber units as in claim 31 wherein the at least one access point
3 replicates video information packets comprising a video channel for each of a
4 plurality of subscriber units requesting the video channel.

1 34. (original) A system for providing packetized video information
2 to a plurality of subscriber units as in claim 31 wherein at least one access point is
3 operative to

4 receive a request to access a video channel from a subscriber unit;
5 determine if the requested video channel is currently being accessed
6 by another subscriber unit served by the access point; and
7 if the requested video channel is not currently being accessed by
8 another subscriber unit served by the access point, forwarding the request to a video
9 supplier.

1 35. (original) A system for providing packetized video information
2 to a plurality of subscriber units as in claim 34 wherein each of the at least one access
3 point is further operative to
4 receive a video information packet from at least one video supplier;
5 determine if the received video packet corresponds to a video channel
6 requested by more than one subscriber unit; and
7 forward the video packet to each subscriber unit requesting the video
8 channel.

1 36. (original) A system for distributing high-speed information
2 packets to at least one subscriber unit, each information packet associated with an
3 information channel, the system comprising:
4 a distributed network of routing elements for routing each information
5 packet, each routing element in wireless communication with at least one other
6 routing element in the network of routing elements; and
7 at least one distribution center in communication with the distributed
8 network of routing elements and with at least one subscriber unit, each distribution
9 center forwarding each information packet to each subscriber unit requesting the
10 information channel associated with each information packet.

1 37. (original) A system for distributing high-speed information
2 packets to at least one subscriber unit as in claim 36 wherein the information packets
3 comprise video information.

1 38. (original) A system for distributing high-speed information
2 packets to at least one subscriber unit as in claim 36 wherein the distributed network
3 of routing elements comprises:

4 a distributed network of distribution points operative to route each
5 information packet; and

6 at least one access point operative to communicate with a plurality of
7 subscriber units.

1 39. (original) A system for distributing high-speed information
2 packets to at least one subscriber unit as in claim 38 wherein at least one distribution
3 point functions as the distribution center.

1 40. (original) A system for distributing high-speed information
2 packets to at least one subscriber unit as in claim 38 wherein at least one access point
3 functions as the distribution center.

1 41. (original) A system for distributing high-speed information
2 packets to at least one subscriber unit as in claim 36 wherein the at least one
3 distribution center receives a request from a subscriber unit to access an information
4 channel and requests transmission of the requested information channel if no other
5 subscriber unit is receiving the requested information channel.

1 42. (original) A system for distributing high-speed information
2 packets to at least one subscriber unit as in claim 41 wherein at least one distribution
3 center receives a request from a subscriber unit based on a determination that the
4 requesting subscriber unit is within the coverage area of the at least one distribution
5 center.

1 43. (original) A system for distributing high-speed information
2 packets to at least one subscriber unit as in claim 41 wherein at least one distribution
3 center receives a request from a subscriber unit based on a message from a subscriber
4 unit.

1 44. (original) A system for distributing high-speed information
2 packets to at least one subscriber unit as in claim 41 wherein at least one distribution
3 center further transmits a dummy address as the destination for the requested
4 transmission of the requested information channel.

1 45. (original) A system for distributing high-speed information
2 packets to at least one subscriber unit as in claim 41 wherein at least one distribution
3 center notes that the requesting subscriber unit is receiving the requested information
4 channel.

1 46. (original) A system for distributing high-speed information
2 packets to at least one subscriber unit as in claim 41 wherein at least one distribution
3 center determines that a subscriber unit is no longer accessing the information
4 channel and cancels transmission of the information channel if no other subscriber
5 unit is receiving the information channel.